

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

CORRECTIVE ASSIGNMENT

NATURE OF CONVEYANCE:

Corrective Assignment to correct the Inventors' signing dates previously recorded on Reel 020162 Frame 0895. Assignor(s) hereby confirms the 09/20/2007; 09/20; 09/20; 09/20; 09/21; 08/23; 09/10; 08/22; 09/20; 09/20; 08/22; and 09/13/2007.

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| Stoyan Nihtianov | 09/20/2007 |
| Arie Johan Van Der Sijs | 09/20/2007 |
| Bearrach Moest | 09/20/2007 |
| Petrus Wilhelmus Josephus Maria Kemper | 09/20/2007 |
| Gerardus Wilhelmus Petrus Baas | 09/21/2007 |
| Francesco Sarubbi | 08/23/2007 |
| Marc Antonius Maria Haast | 09/10/2007 |
| Lis Karen Nanver | 08/22/2007 |
| Antonius Andreas Johannes Schuwer | 09/20/2007 |
| Gregory Micha Gommeren | 09/20/2007 |
| Thomas Ludovicus Maria Scholtes | 08/22/2007 |
| Martijn Pot | 09/13/2007 |

RECEIVING PARTY DATA

| | |
|-----------------|-----------------------|
| Name: | ASML Netherlands B.V. |
| Street Address: | De Run 6501 |
| City: | Veldhoven |
| State/Country: | NETHERLANDS |
| Postal Code: | NL-5504 DR |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11819160 |

CORRESPONDENCE DATA

Fax Number: (703)770-7901

PATENT

500461998

REEL: 020496 FRAME: 0595

CH \$40.00 11819160

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7037707900
Email: miriam.nelsen@pillsburylaw.com
Correspondent Name: Miriam Elaine Nelsen
Address Line 1: 1650 Tysons Boulevard
Address Line 4: McLean, VIRGINIA 22102

| | |
|-------------------------|----------------|
| ATTORNEY DOCKET NUMBER: | 081468-0361826 |
|-------------------------|----------------|

| | |
|--------------------|--------------------|
| NAME OF SUBMITTER: | /Miriam E. Nelsen/ |
|--------------------|--------------------|

Total Attachments: 12

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11-23-2007

U.S. DEPARTMENT OF COMMERCE
States Patent and Trademark Office



103463458

To the Director of the U.S. Patent and Trademark Office

or the new address(es) below.

1. Name of conveying party(ies)

STOYAN NIHTIANOV
ARIE JOHAN VAN DER SIJS
BEARRACH MOEST

2. Name and address of receiving party(ies)

Name: ASML Netherlands B.V.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) See 1 in Addendum

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other _____

Street Address: De Run 6501

City: Veldhoven

State: _____

Country: The Netherlands Zip: NL-5504 DR

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/819,160

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: PILLSBURY WINTHROP SHAW PITTMAN LLP

Internal Address: P.O. Box 10500

Street Address: 1650 Tysons Boulevard

City: McLean

State: VA Zip: 22102

Phone Number: (703) 770-7900

Fax Number: (703) 770-7901

Email Address: robert.percz@pillsburylaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

081468-0361826

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 033975

Authorized User Name _____

9. Signature:

Signature

Robert C. Percz, Reg. No. 39328

Name of Person Signing

11/21/2007 RECEIVED 00000000 033975 11/21/2007
November 19, 2007
01 FC:8021 Date

Total number of pages including cover sheet, attachments, and documents: ☐

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ATTACHMENT FOR RECORDATION FORM COVER SHEET
PATENTS ONLY (Form PTO-1595)

1. Name of conveying party(ies):

PETRUS WILHELMUS JOSEPHUS MARIA KEMPER

MARC ANTONIUS MARIA HAAST

GERARDUS WILHELMUS PETRUS BAAS

LIS KAREN NANVER

FRANCESCO SARUBBI

ANTONIUS ANDREAS JOHANNES SCHUWER

Additional name(s) of conveying party(ies) attached?

☒ Yes ☐ No

2. Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

ATTACHMENT FOR RECORDATION FORM COVER SHEET
PATENTS ONLY (Form PTO-1595)

1. Name of conveying party(ies):

GREGORY MICHA GOMBEREN

MARTIJN POT

THOMAS LUDOVICUS MARIA SCHOLTES

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?

☐ Yes ☒ No

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If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

Attachment to Form PTO - 1595
Recordation Form Cover Sheet

1) 09-20-07; 2) 09-20-07; 3) 09-20-07; 4) 09-20-07; 5) 09-10-07; 6)
09-21-07; 7) 08-22-07; 8) 08-23-07; 9) 09-20-07; 10) 09-20-07; 11)
09-13-07; 12) 08-22-07

Please return signed/recorded to:

Pillsbury Winthrop LLP
Intellectual Property Group
P.O. Box 10500
McLean, VA 22102

USA Patent Appln.
Sole or Joint

For Inventions made outside USA
executed with or after application

Atty. Dkt. P 361826

P-2815.000-US

M#

Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

| | |
|---------------------------------|--|
| (1) Stoyan NIHTIANOV | (2) Arie, Johan VAN DER SIJS |
| (3) Bearrach MOEST | (4) Petrus, Wilhelmus, Josephus, Maria KEMPER |
| (5) Marc, Antonius, Maria HAAST | <input checked="" type="checkbox"/> x box if continued on page 2 |

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

ASML NETHERLANDS B.V.
De Run 6501
NL-5504 DR Veldhoven
The Netherlands

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

TITLE OF
INVENTION

RADIATION DETECTOR, METHOD OF MANUFACTURING A RADIATION DETECTOR AND
LITHOGRAPHIC APPARATUS COMPRISING A RADIATION DETECTOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → →
(Complete

line A, B and/or C)

(A) ☐ even date herewith
(B) ☐ on

(C) ☒ in U.S. Appln. No. 11/819,160 filed 25 June 2007

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1):
Name: Stoyan NIHTIANOV
2):
Name: Arie, Johan VAN DER SIJS
3):
Name: Bearrach MOEST
4):
Name: Petrus, Wilhelmus, Josephus, Maria KEMPER
5):
Name: Marc, Antonius, Maria HAAST

DATE SIGNED

20 September 2007
20 September 2007
20 September 2007
20 September 2007

WITNESSES

Henriette van den Dolder
Henriette van den Dolder
Henriette van den Dolder
Henriette van den Dolder

Please return signed/recorded to:

Pillsbury Winthrop LLP
Intellectual Property Group
P.O. Box 10500
McLean, VA 22102

USA Patent Appln.
Sole or Joint

For Inventions made outside USA
executed with or after application

Atty. Dkt. P 361826

M#

P-2815.000-US

Client Ref.

NONPROVISIONAL

**ASSIGNMENT
OF NONPROVISIONAL APPLICATION**

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

| | | |
|-------------------------------------|---|---|
| INSERT NAME(S) OF INVENTOR(S) | (1) Stoyan NIHTIANOV (3) Bearrach MOEST (5) Marc, Antonius, Maria HAAST | (2) Arie, Johan VAN DER SIJS (4) Petrus, Wilhelmus, Josephus, Maria KEMPER <input checked="" type="checkbox"/> x box if continued on page 2 |
|-------------------------------------|---|---|

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

| | |
|--|---|
| INSERT NAME(S) OF ASSIGNEE(S) & ADDRESS(ES) | ASML NETHERLANDS B.V. De Run 6501 NL-5504 DR Veldhoven The Netherlands |
|--|---|

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof; and all resulting patents, known as

| | |
|-----------------------|--|
| TITLE OF INVENTION | RADIATION DETECTOR, METHOD OF MANUFACTURING A RADIATION DETECTOR AND LITHOGRAPHIC APPARATUS COMPRISING A RADIATION DETECTOR |
|-----------------------|--|

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) ☐ even date herewith
(Complete) (B) ☐ on _____
line A, B and/or C) (C) ☒ in U.S. Appln. No. 11/819,160 filed 25 June 2007

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

| | INVENTORS | DATE SIGNED | WITNESSES |
|-------|---|-------------|--------------------------|
| 1): | | | |
| Name: | Stoyan NIHTIANOV | | |
| 2) | | | |
| Name: | Arie, Johan VAN DER SIJS | | |
| 3) | | | |
| Name: | Bearrach MOEST | | |
| 4) | | | |
| Name: | Petrus, Wilhelmus, Josephus, Maria KEMPER | | |
| 5) | | 10.09.07 | |
| Name: | Marc, Antonius, Maria HAAST | | Henriette van den Dolder |


ASSIGNMENT
(Continued from page 1)

LISTING OF ADDITIONAL INVENTORS

INSERT
NAME(S) OF
INVENTOR(S)

| | |
|--|---|
| (6) Gerardus, Wilhelmus, Petrus, BAAS | (7) Lis, Karen NANVER |
| (8) Francesco SARUBBI | (9) Antonius, Andreas, Johannes SCHUWER |
| (10) Gregory, Micha GOMMEREN | (11) Martijn POT |
| (12) Thomas, Ludovicus, Maria SCHOLTES | |

SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

| | <u>INVENTORS</u> | <u>DATE SIGNED</u> | <u>WITNESSES</u> |
|-------|--|--------------------|------------------|
| 6): | | | |
| Name: | Gerardus, Wilhelmus, Petrus, BAAS | | |
| 7) | | | |
| Name: | Lis, Karen NANVER | | |
| 8) | | | |
| Name: | Francesco SARUBBI | | |
| 9) | | | |
| Name: | Antonius, Andreas, Johannes SCHUWER | | |
| 10) | | | |
| Name: | Gregory, Micha GOMMEREN | | |
| 11) |  | 13-9-07 | |
| Name: | Martijn POT | | |
| 12) | | | |
| Name: | Thomas, Ludovicus, Maria SCHOLTES | | |

ASSIGNMENT
(Continued from page 1)

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| (12) Thomas, Ludovicus, Maria SCHOLTES | |

SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

| | <u>INVENTORS</u> | <u>DATE SIGNED</u> | <u>WITNESSES</u> |
|-------|-------------------------------------|--------------------|--------------------------|
| 6): | | | |
| Name: | Gerardus, Wilhelmus, Petrus, BAAS | | |
| 7) | | | |
| Name: | Lis, Karen NANVER | | |
| 8) | | | |
| Name: | Francesco SARUBBI | | |
| 9) | | | |
| Name: | Antonius, Andreas, Johannes SCHUWER | 28 September 2007 | Henriette van den Dolder |
| 10) | | | |
| Name: | Gregory, Micha GOMMEREN | 28 September 2007 | Henriette van den Dolder |
| 11) | | | |
| Name: | Martijn POT | | |
| 12) | | | |
| Name: | Thomas, Ludovicus, Maria SCHOLTES | | |

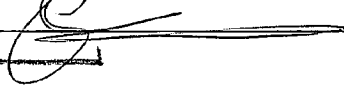
ASSIGNMENT
(Continued from page 1)

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| | <u>INVENTORS</u> | <u>DATE SIGNED</u> | <u>WITNESSES</u> |
|-------|-------------------------------------|--------------------|---|
| 6): | | | |
| Name: | Gerardus, Wilhelmus, Petrus, BAAS | 9/21/09-2009 |  |
| 7) | | | |
| Name: | Lis, Karen NANVER | | |
| 8) | | | |
| Name: | Francesco SARUBBI | | |
| 9) | | | |
| Name: | Antonius, Andreas, Johannes SCHUWER | | |
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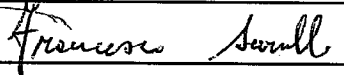
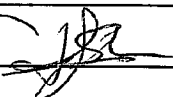
ASSIGNMENT
(Continued from page 1)

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| (12) Thomas, Ludovicus, Maria SCHOLTES | |

SIGNATURES OF ADDITIONAL INVENTORS/WITNESSES/DATES SIGNED

| | <u>INVENTORS</u> | <u>DATE SIGNED</u> | <u>WITNESSES</u> |
|-------|-------------------------------------|--------------------|---|
| 6): | | | |
| Name: | Gerardus, Wilhelmus, Petrus, BAAS | | |
| 7) | | | |
| Name: | Lis, Karen NANVER | 22-8-2007 |  |
| 8) | | | |
| Name: | Francesco SARUBBI | 23-8-2007 |  |
| 9) | | | |
| Name: | Antonius, Andreas, Johannes SCHUWER | | |
| 10) | | | |
| Name: | Gregory, Micha GOMMEREN | | |
| 11) | | | |
| Name: | Martijn POT | 22-8-2007 |  |
| 12) | | | |
| Name: | Thomas, Ludovicus, Maria SCHOLTES | | |